REMARKS

This preliminary amendment is submitted concurrently with the filing of the present application, which is a continuation of co-pending U.S. Patent Application Serial Number 09/510,274. During prosecution of U.S. Patent Application Serial Number 09/510,274, claims 1, 4-5, 8, 10-12, 14, 17, and 21-31 of that application were finally rejected, and Applicant filed a Notice of Appeal on March 10, 2003 appealing the rejection of those claims.

The Examiner called Applicant's attorney, Jody Bishop, on July 11, 2003, and indicated that the rejections of claims 27-31 were being withdrawn, as those claims are allowable over the art of record. The Examiner further indicated that the rejection of claims 1, 4-5, 8, 10-12, 14, 17, and 21-26 was maintained. In response, Applicant amended U.S. Patent Application Serial Number 09/510,274 by canceling claims 1, 4-5, 8, 10-12, 14, 17, and 21-26, without conceding in any way that the outstanding rejection of those claims was proper. Rather, claims 1, 4-5, 8, 10-12, 14, 17, and 21-26 were canceled solely to advance prosecution of U.S. Patent Application Serial Number 09/510,274 to allow claims 27-31 to advance to issuance.

The present application presents claims 1-15, which correspond to claims 1, 4-5, 8, 10-12, 14, 17, and 21-26 that were canceled from U.S. Patent Application Serial Number 09/510,274. During the telephone interview of July 11, 2003, the Examiner suggested that the language of independent claim be amended to replace the language "as the result of" with "according to". Accordingly, Applicant submits this preliminary amendment amending claims 1-2, 8, and 13 in the manner described further below.

Independent claim 1 is amended herein to replace "as the result of" with "according to", such that it recites, in part, "wherein said means for generating implements a modified Baugh-Wooley algorithm for signed multiplication that generates a product of operands A and B according to $((S_A*S_B*2^{2N-2})+(S_A*(-1)*2^{N-1}*B')+(S_B*(-1)*2^{N-1}*A')+(A'*B'))$".

Dependent claim 2 is amended herein to replace "as the result of" with "according to", such that it recites "wherein said means for generating is further configured to perform unsigned multiplication by generating a product of said operands A and B according to: $((S_A*S_B*2^{2N-2})+(S_A*2^{N-1}*B')+(S_B*2^{N-1}*A')+(A'*B'))$.

Independent claim 8 is amended herein to replace two occurrences of the phrase "as a result of" each with the phrase "according to", such that it recites, in part, "wherein said linear summation array is implemented to generate a product of operands A and B according to $((S_A*S_B*2^{2N-2})+(S_A*(-1)*2^{N-1}*B')+(S_B*(-1)*2^{N-1}*A')+(A'*B'))$ when performing signed multiplication, ... and wherein said linear summation array is implemented to generate a product of operands A and B according to $((S_A*S_B*2^{2N-2})+(S_A*2^{N-1}*B')+(S_B*2^{N-1}*A')+(A'*B'))$ when performing unsigned multiplication".
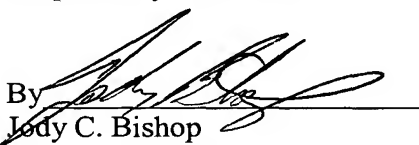
Independent claim 13 is amended herein to replace two occurrences of the phrase "as a result of" each with the phrase "according to", such that it recites, in part, "if signed multiplication is desired, then computing the product of said at least two operands A and B according to $((S_A*S_B*2^{2N-2})+(S_A*(-1)*2^{N-1}*B')+(S_B*(-1)*2^{N-1}*A')+(A'*B'))$ ... and if unsigned multiplication is desired, then computing the product of said at least two operands A and B according to $((S_A*S_B*2^{2N-2})+(S_A*2^{N-1}*B')+(S_B*2^{N-1}*A')+(A'*B'))$".

The above amendments to claims 1-2, 8, and 13 are not intended to narrow the scope of those claims in any way, but are instead intended merely as cosmetic changes for improved readability, as suggested by the Examiner.

Applicant believes no fee is due with this response. However, if a fee is due, please charge our Deposit Account No. 08-2025, under Order No.10971278-3 from which the undersigned is authorized to draw.

Dated: July 25, 2003   Respectfully submitted,

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